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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/016,948	12/13/2001	Robert Hundt	10019984-1	7386	
7590 06/17/2005 HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400 Fort Collins, CO 80527-2400			EXAMINER		
			KANG,	KANG, INSUN	
			ART UNIT	PAPER NUMBER	
			AKTONII	FAFER NUMBER	
			2193		
			DATE MAILED: 06/17/2009	DATE MAILED: 06/17/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 10016, 448 HUNDT ET AL. Examiner								
## Examinar Examina		Application No.	Applicant(s)					
Period for Reply	*	10/016,948	HUNDT ET AL.					
The MAILNG DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Editablished inform may be available under the proximation of 37 CPR 1.15(4e). In no event, however, may a reply be timely fled Etheration of them may be available under the proximation of 37 CPR 1.15(4e). In no event, however, may a reply be timely fled If the period for reply specified above is less than thirty (30) days, a reply which the statutory privation of the proximation of t	Office Action Summary	Examiner	Art Unit					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Established of time may be available under the provisions of 31 CFR 1.136(a). In no event, however, may a reply be timely liked at the control of time may be available under the provisions of 31 CFR 1.136(a). In no event, however, may a reply be timely liked at the control of time may be available under the provisions of 31 CFR 1.136(a). In no event, however, may a reply be timely liked at the control of the provision of the provisio		Insun Kang	2193					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Editations of them may be available under the provisions of 37 CFR 175(6). In no event, however, may a reply be timely filed Editations of them may be available under the provisions of 37 CFR 175(6). In no event, however, may a reply be timely filed If the period for reply is pecified above is less than thirty (30) days, a reply within the statubory minimum of thurty (30) days will be considered timely. If NO pariod for reply is pecified above, the maximum statubory prived will apply and ville agrice X(6) (MONTHS from the mailing date of this communication. Pallors to reply within the set or extended period for reply will be statuble or provision of the mailing date of this communication, even if through filed, may reduce any search gatent term adjustment. See 37 CFR 1704(b). Status 1) Responsive to communication(s) filed on 27 February 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) Claim(s) 1-21 is/are allowed. 6) Claim(s) 1-21 is/are objected to. 7) Claim(s) is/are allowed. 6) Claim(s) 1-21 is/are objected to. 8) Claim(s) 1-21 is/are objected to. 8) Claim(s) 2-21 is/are objected to. 8) Claim(s) 3-23 is/are objected to. 9) The drawing(s) filed on 07 February 2005 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
1) Responsive to communication(s) filed on <i>QT February 2005</i> . 2a) This action is FINAL. 2b) ↑ This action is non-final. 3) ∫ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ◯ Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) ◯ Claim(s) is/are allowed. 6) ◯ Claim(s) is/are objected to. 7) │ Claim(s) is/are objected to. 80 │ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) │ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on <i>QT February 2005</i> is/are: a) ☒ accepted or b) │ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) │ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) │ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) │ All b) │ Some * O │ None of: 1. │ Certified copies of the priority documents have been received in Application No 3 │ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) │ Notice of References Cited (PTO-892) 2) │ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) │ Information Disclaeure Statement(s) (PTO-1439 or PTO/SB/08) 5) │ Notice of Information Patent Application (PTO-152)	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any							
2a) This action is FINAL. 2b This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 07 February 2005 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 5) Notice of Informal Patent Application (PTO-152)	Status							
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DETAILED ACTION

1. This action is in response to the amendment filed 2/7/2005.

2. Claims 1-21 are pending in the application.

Drawings

3. The drawings filed 2/7/2005 have been accepted.

Specification

4. The objection to the specification has been withdrawn due to the amendment to the Specification.

Double Patenting

5. The terminal disclaimer filed 2/7/2005 has been acknowledged.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Applicant's Admitted Prior Art (hereinafter referred to as "APA") disclosed in the background section of the instant application.

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Per claim 1:

APA discloses:

a) detecting a request for first unwind information related to first corresponding dynamically generated code (APA, "The pseudo-modules are utilized by the software component seeking to register an instrumented function along with its unwind information," page 3 lines 1-25)

- b) creating a module which includes data related to said first unwind information and said first corresponding dynamically generated code (APA, "pseudo-modules are created. These pseudo-modules contain data about the dynamically generated code(e.g. instrumented code) and the corresponding unwind information," page 3 lines 10-25)
- c) providing an application program interface which allows said data to be registered such that dynamic registration of said first unwind information and said first corresponding dynamically generated code is enabled (APA, "an application program interface invocation code sequence is coupled to the dynamically generated code. The application program interface invocation code sequence operates in conjunction with the application program interface to facilitate the use of the pseudo-modules during registration of the unwind information," page 3 lines 1-25)
- d) coupling an application program interface invocation code sequence to said first corresponding dynamically generated code such that upon execution of said first corresponding dynamically generated code, said application program interface invocation code sequence instructs said application program interface to facilitate

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registration of said data (APA, "an application program interface invocation code sequence is coupled to the dynamically generated code. The application program interface invocation code sequence operates in conjunction with the application program interface to facilitate the use of the pseudo-modules during registration of the unwind information," page 3 lines 1-25) as claimed.

Per claim 2:

The rejection of claim 1 is incorporated, and further, APA discloses:

- e) repeating steps b) through d) for second dynamically generated code wherein said second dynamically generated code was produced prior to producing said first unwind information and said first corresponding dynamically generated code, and generating unwind information corresponding to said second dynamically generated code (APA, "This registration, enabled by the pseudo-modules, in a centralized place allows easy and effective synchronization and eliminates the need to update unwind tables," page 3 lines 1-25) as claimed.

Per claim 3:

The rejection of claim 2 is incorporated, and further, APA discloses:

- step e) is performed only when said second dynamically generated code has a corresponding return address which is called by said first corresponding dynamically generated code (APA, "This registration, enabled by the pseudo-modules, in a centralized place allows easy and effective synchronization and eliminates the need to

update unwind tables," page 3 lines 1-25) as claimed.

Per claim 4:

The rejection of claim 1 is incorporated, and further, APA discloses:

-detecting said request for said first unwind information related to said first corresponding dynamically generated code by intercepting a call to a stack unwinding mechanism (APA, "This registration, enabled by the pseudo-modules, in a centralized place allows easy and effective synchronization and eliminates the need to update unwind tables," page 3 lines 1-25) as claimed.

Per claim 5:

The rejection of claim 4 is incorporated, and further, APA discloses:

- said corresponding return address of said second corresponding dynamically generated code is obtained by an address mechanism coupled to said stack unwinding mechanism (APA, "an IA-64 architecture by Intel... the runtime architecture uses unwind information to perform the task of unwinding... "an application program interface invocation code sequence is coupled to the dynamically generated code. The application program interface invocation code sequence operates in conjunction with the application program interface to facilitate the use of the pseudo-modules during registration of the unwind information," page 3 lines 1-25) as claimed.

Per claim 6:

The rejection of claim 1 is incorporated, and further, APA, Hundt, and Cierniak disclose:

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-said first corresponding dynamically generated code is comprised of instrumented code (APA, "dynamically generated code (e.g. the instrumented code)," page 3 lines 1-25) as

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claimed.

Per claim 7:

The rejection of claim 1 is incorporated, and further, APA, Hundt, and Cierniak disclose:

-said second corresponding dynamically generated code is comprised of instrumented

code (APA, "dynamically generated code (e.g. the instrumented code)," page 3 lines 1-

25) as claimed.

Per claims 8-14, they are the computer-readable medium versions of claims 1-7,

respectively, and are rejected for the same reasons set forth in connection with the

rejection of claims 1-7 above.

Per claims 15-21, they are the apparatus versions of claims 1-7, respectively,

and are rejected for the same reasons set forth in connection with the rejection of claims

1-7 above.

8. Claims 1-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Hundt

(HP Caliper- An Architecture for Performance Analysis Tool, 10/2000).

Per claim 1:

Hundt discloses:

- a) detecting a request for first unwind information related to first corresponding
 dynamically generated code (Hundt, page 2 HP Caliper Architecture, page 3 paragraph
 2-3, page 4 4. Dynamic Instrumentation, first paragraph)
- b) creating a module which includes data related to said first unwind information and said first corresponding dynamically generated code (Hundt, Caliper API, Fig 1, section 4:1 Algorithm)
- c) providing an application program interface which allows said data to be registered such that dynamic registration of said first unwind information and said first corresponding dynamically generated code is enabled (Hundt, Caliper API, Fig 1, section 4.1 Algorithm)
- d) coupling an application program interface invocation code sequence to said first corresponding dynamically generated code such that upon execution of said first corresponding dynamically generated code, said application program interface invocation code sequence instructs said application program interface to facilitate registration of said data (Hundt, Caliper API, Fig 1, page 5-6 section 4.1 Algorithm) as claimed.

Per claim 2:

The rejection of claim 1 is incorporated, and further, Hundt discloses:

- e) repeating steps b) through d) for second dynamically generated code wherein said second dynamically generated code was produced prior to producing said first unwind information and said first corresponding dynamically generated code, and generating

unwind information corresponding to said second dynamically generated code (Hundt, section 4.1 Algorithm, page 5, right column, paragraphs 6-7, page 6, right column. paragraphs 3-5) as claimed.

Per claim 3:

The rejection of claim 2 is incorporated, and further, Hundt discloses:

- step e) is performed only when said second dynamically generated code has a corresponding return address which is called by said first corresponding dynamically generated code (Hundt, section 4.1, page 6, right column, paragraphs 3-5, and 7) as claimed.

Per claim 4:

The rejection of claim 1 is incorporated, and further, Hundt discloses:

 -detecting said request for said first unwind information related to said first corresponding dynamically generated code by intercepting a call to a stack unwinding mechanism (Hundt, section 4.1, page 6, right column, paragraphs 3-5, and 7) as claimed.

Per claim 5:

The rejection of claim 4 is incorporated, and further, Hundt discloses:

- said corresponding return address of said second corresponding dynamically generated code is obtained by an address mechanism coupled to said stack unwinding

mechanism (Hundt, section 4.1, page 6, right column, paragraphs 3-5, and 7) as claimed.

Per claim 6:

The rejection of claim 1 is incorporated, and further, Hundt discloses:

-said first corresponding dynamically generated code is comprised of instrumented code (Hundt, page 5 right column, 4.1 Algorithm, dynamic instrumentation algorithm, 1.Attach and Inject) as claimed.

Per claim 7:

The rejection of claim 1 is incorporated, and further, Hundt discloses:

-said second corresponding dynamically generated code is comprised of instrumented code (Hundt, page 5 right column, 4.1 Algorithm, dynamic instrumentation algorithm, 1. Attach and Inject) as claimed.

Per claims 8-14, they are the computer-readable medium versions of claims 1-7, respectively, and are rejected for the same reasons set forth in connection with the rejection of claims 1-7 above.

Per claims 15-21, they are the apparatus versions of claims 1-7, respectively, and are rejected for the same reasons set forth in connection with the rejection of claims 1-7 above.

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9. Claims 1-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Cierniak et al. (Practicing JUDO : Java™ Under Dynamic Optimizations, 5/2000) hereinafter referred to as "Cierniak."

Per claim 1:

Cierniak discloses:

- a) detecting a request for first unwind information related to first corresponding
 dynamically generated code (Cierniak, page 19, 5.1 Dynamic inline patching, page 20
 5.4 Lazy Exceptions)
- b) creating a module which includes data related to said first unwind information and said first corresponding dynamically generated code (Cierniak, page 19, 5.1 Dynamic inline patching, page 20 5.4 Lazy Exceptions)
- c) providing an application program interface which allows said data to be registered such that dynamic registration of said first unwind information and said first corresponding dynamically generated code is enabled (Cierniak, page 19, 5.1 Dynamic inline patching, page 20 5.4 Lazy Exceptions)
- d) coupling an application program interface invocation code sequence to said first corresponding dynamically generated code such that upon execution of said first corresponding dynamically generated code, said application program interface invocation code sequence instructs said application program interface to facilitate registration of said data (Cierniak, page 19, 5.1 Dynamic inline patching, page 20 5.4 Lazy Exceptions) as claimed.

Per claim 2:

The rejection of claim 1 is incorporated, and further, Cierniak discloses:

- e) repeating steps b) through d) for second dynamically generated code wherein said

second dynamically generated code was produced prior to producing said first unwind

information and said first corresponding dynamically generated code, and generating

unwind information corresponding to said second dynamically generated code

(Cierniak, page 19, 5.1 Dynamic inline patching, page 20 5.4 Lazy Exceptions) as

claimed.

Per claim 3:

The rejection of claim 2 is incorporated, and further, Cierniak discloses:

- step e) is performed only when said second dynamically generated code has a

corresponding return address which is called by said first corresponding dynamically

generated code (Cierniak, page 19, 5.1 Dynamic inline patching, page 20 5.4 Lazy

Exceptions) as claimed.

Per claim 4:

The rejection of claim 1 is incorporated, and further, Cierniak discloses:

-detecting said request for said first unwind information related to said first

corresponding dynamically generated code by intercepting a call to a stack unwinding

mechanism (Cierniak, page 19, 5.1 Dynamic inline patching, page 20 5.4 Lazy

Exceptions) as claimed.

Per claim 5:

The rejection of claim 4 is incorporated, and further, Cierniak discloses:

- said corresponding return address of said second corresponding dynamically generated code is obtained by an address mechanism coupled to said stack unwinding mechanism (Cierniak, page 19, 5.1 Dynamic inline patching, page 20 5.4 Lazy Exceptions) as claimed.

Per claim 6:

The rejection of claim 1 is incorporated, and further, Cierniak discloses:

-said first corresponding dynamically generated code is comprised of instrumented code (Cierniak, page 19, 5.1 Dynamic inline patching, page 20 5.4 Lazy Exceptions) as claimed.

Per claim 7:

The rejection of claim 1 is incorporated, and further, Cierniak discloses:

-said second corresponding dynamically generated code is comprised of instrumented code (Cierniak, page 19, 5.1 Dynamic inline patching, page 20 5.4 Lazy Exceptions) as claimed.

Per claims 8-14, they are the computer-readable medium versions of claims 1-7, respectively, and are rejected for the same reasons set forth in connection with the rejection of claims 1-7 above.

Per claims 15-21, they are the apparatus versions of claims 1-7, respectively, and are rejected for the same reasons set forth in connection with the rejection of claims 1-7 above.

Response to Arguments

10. Applicant's arguments filed 2/7/2005 have been fully considered but they are not persuasive.

Per claim 1:

The applicant simply states that: APA does not teach or suggest dynamic registration of first unwind information...application program interface which allows said data to be registered...corresponding dynamically generated code is enabled." Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

In response, as previously recited, APA states that the "pseudo-modules are utilized by the software component seeking to register an instrumented function along with its unwind information (page 3 lines 1-25)" and these "pseudo-modules contain data about the dynamically generated code(e.g. instrumented code) and the corresponding unwind information (page 3 lines 10-25)." Further, the applicant referred page 12 lines 5-10 concerning "providing an application program interface...is enabled." However, in the background section of the instant application, APA states that "an application program interface invocation code sequence is coupled to the dynamically

generated code (page 3 lines 1-25) and the "application program interface invocation code sequence operates in conjunction with the application program interface to facilitate the use of the pseudo-modules during registration of the unwind information (page 3 lines 1-25)." Therefore, APA discloses the limitations in claim 1. If applicant means anything more, this must be brought out in the claims to further clarify the invention.

The applicant simply states that HP Caliper and Cierniak do not disclose the limitations in the claim 1. Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references. Further, Cierniak and Caliper disclose unwind information or registering data let alone providing an application program interface...enabled (Cierniak, the unwind process in section 3.2 and HP Caliper, Hundt, Caliper API, Fig 1, section 4.1 Algorithm). If applicant means anything more, this must be brought out in the claims to further clarify the invention.

Per claims 8 and 15:

The applicant states that these claims are allowable for the reasons set forth in connection with claim 1. As shown above, the rejections of claim 1 by APA, Caliper, and Cierniak are maintained, and accordingly, the rejections of claims 8 and 15 are also maintained.

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Per claims 2-7, 9-14, and 16-21:

The applicant states that claims 2-7, 9-14, and 16-21 are allowable as being dependent on the allowable base claims. As has been shown above, the rejections of the independent claims 1, 8, 15 by APA, Caliper, and Cierniak are maintained, the argument that claims 2-7, 9-14, and 16-21 are allowable as being dependent on the allowable base claims is considered moot. Accordingly, the rejections of claims 2-7, 9-14, and 16-21 are also maintained.

Conclusion

11. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Insun Kang whose telephone number is 571-272-3724. The examiner can normally be reached on M-F 7:30-4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on 571-272-3719. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100.

I. Kang Examiner 6/7/2005

> KAKALI CHAKI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100